

artdaq - Bug #21946

daqinterface starting multiple msgviewer per partition

02/21/2019 04:52 PM - Ron Rechenmacher

Status:	Resolved	Start date:	02/21/2019
Priority:	Normal	Due date:	
Assignee:	John Freeman	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Co-Assignees:	
Experiment:	-		
Description			
multiple "just_do_it.sh" invocations produce multiple message viewers per partition. For example, having just_do_it environments for partition 0 and partition 3 and doing 2 just_do_it.sh calls in each produces:			
<pre>/root mu2eddaq01 :^ netstat -ulpn grep viewer udp 0 0 0.0.0.0:10005 0.0.0.0:* 12436/msgviewer udp 0 0 0.0.0.0:10005 0.0.0.0:* 26503/msgviewer udp 0 0 0.0.0.0:13005 0.0.0.0:* 19292/msgviewer udp 0 0 0.0.0.0:13005 0.0.0.0:* 21042/msgviewer --2019-02-21_16:48:54--</pre>			

Associated revisions

Revision 86502da9 - 02/23/2019 12:50 PM - John Freeman

JCF: Issue #21946: Since stdin is now disabled from DAQInterface's perspective, determine the tty within the source_me script

Revision ea4ddd87 - 02/23/2019 01:01 PM - John Freeman

JCF: Issue #21946: forgot to add the source_me in the previous commit

Revision d9bf35ea - 02/23/2019 01:06 PM - John Freeman

JCF: since this fix hasn't yet been reviewed, I've moved it over to the feature/issue21946_multiple_msgviewers_launched branch

Revert "JCF: Issue #21946: Since stdin is now disabled from DAQInterface's perspective, determine the tty within the source_me script"

This reverts commit 86502da91729c1e18073539725dce7d5708f0809.

Revision 7672ad0b - 02/27/2019 03:12 PM - John Freeman

JCF: Issue #21946: Since stdin is now disabled from DAQInterface's perspective, determine the tty within the source_me script

Revision b5a8d707 - 02/27/2019 03:12 PM - John Freeman

JCF: Issue #21946: forgot to add the source_me in the previous commit

History

#1 - 02/23/2019 01:05 PM - John Freeman

- % Done changed from 0 to 100
- Assignee set to John Freeman
- Status changed from New to Resolved

Fixed on feature/issue21946_multiple_msgviewers_launched (HEAD is ea4ddd87d517a4b8f1e063294b2e3d26b0c89649)

The problem is that the is_msgviewer_running() function which DAQInterface calls to determine if there's already a msgviewer window launched from

its terminal broke when stdin for DAQInterface was disabled with a "<&-" as the solution to the hangs described in Issue [#21804](#). The reason `is_msgviewer_running()` broke was that it had been calling `tty` to figure out what terminal it was in:

```
tty = Popen("tty", shell=True,  
           stdout=subprocess.PIPE).stdout.readlines()[0].strip()
```

...but with stdin disabled, the return value wasn't something like `"/dev/pts/2"`, but rather, `"not a tty"`. So instead, what I've done is have the main DAQInterface `source_me` script determine the `tty`, and assign it to the `DAQINTERFACE_TTY` variable which `is_msgviewer_running()` can then check. Running `just_do_it.sh` more than once in a terminal, DAQInterface is now able to correctly recognize if a msgviewer has already been launched, so we don't end up with a new msgviewer window whenever we run `just_do_it.sh`.

#2 - 02/26/2019 04:58 PM - Ron Rechenmacher

I ran the demo, killed everything, merged `feature/issue21946_multiple_msgviewers_launched` into `develop`, ran `run_demo.sh`, then reran `just_d_it.sh` and another msgviewer started.
git log:

```
commit 15f9b77360d345ece6a84fbfb44f5f18cff1f34d  
Merge: d9bf35e ea4ddd8  
Author: Ron <ron@fnal.gov>  
Date: Tue Feb 26 16:50:19 2019 -0600
```

```
Merge branch 'feature/issue21946_multiple_msgviewers_launched' into develop
```

```
commit d9bf35ea56be91842d5e3850738bc01b6b963a42  
Author: John Freeman <jcfree@mu2edeq01.fnal.gov>  
Date: Sat Feb 23 13:06:34 2019 -0600
```

```
JCF: since this fix hasn't yet been reviewed, I've moved it over to the feature/issue21946_multiple_msgvie  
wers_launched branch
```

```
Revert "JCF: Issue #21946: Since stdin is now disabled from DAQInterface's perspective, determine the tty  
within the source_me script"
```

```
This reverts commit 86502da91729c1e18073539725dce7d5708f0809.
```

#3 - 02/27/2019 12:41 PM - John Freeman

After some investigating, I've determined that this is a rare case in which merging the feature branch into `develop` didn't actually bring in the desired changes- so the failed test above was actually testing the original, buggy algorithm. I've sent an email to Ron describing why the merge didn't do what it typically does and how to work around it; if anyone would like me to, I'll be happy to forward it to them.